



NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

Permit Number: NJ0108456

Final: Stormwater Discharge Master General Permit Renewal

Permittee:

Co-Permittee:

Property Owner:

Location Of Activity:
STATEWIDE

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
CPM -Concrete Products Management (GP)	09/15/2003	10/01/2003	09/30/2008

By Authority of:
Commissioner's Office

DEP AUTHORIZATION
Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
Division of Water Quality

(Terms, conditions and provisions attached hereto)

Concrete Products Manufacturing Industry Specific Permit NJ0108456

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Concrete Products Manufacturing Industry General Permit NJ0108456 (CPM)

Master Permit Renewal

Effective Date: 10/01/2003

Expiration: 09/30/2008

Part 1 - GENERAL REQUIREMENTS: NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

- a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.
- b. General Conditions
 - Penalties for Violations N.J.A.C. 7:14-8.1 et seq.
 - Incorporation by Reference N.J.A.C. 7:14A-2.3
 - Toxic Pollutants N.J.A.C. 7:14A-6.2(a)4i
 - Duty to Comply N.J.A.C. 7:14A-6.2(a)1 & 4
 - Duty to Mitigate N.J.A.C. 7:14A-6.2(a)5 & 11
 - Inspection and Entry N.J.A.C. 7:14A-2.11(e)
 - Enforcement Action N.J.A.C. 7:14A-2.9
 - Duty to Reapply N.J.A.C. 7:14A-4.2(e)3
 - Signatory Requirements for Applications and Reports N.J.A.C. 7:14A-4.9
 - Effect of Permit/Other Laws N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
 - Severability N.J.A.C. 7:14A-2.2
 - Administrative Continuation of Permits N.J.A.C. 7:14A-2.8
 - Permit Actions N.J.A.C. 7:14A-2.7(c)
 - Reopener Clause N.J.A.C. 7:14A-6.2(a)10
 - Permit Duration and Renewal N.J.A.C. 7:14A-2.7(a) & (b)
 - Consolidation of Permit Process N.J.A.C. 7:14A-15.5
 - Confidentiality N.J.A.C. 7:14A-18.2 & 2.11(g)
 - Fee Schedule N.J.A.C. 7:14A-3.1
 - Treatment Works Approval N.J.A.C. 7:14A-22 & 23
- c. Operation And Maintenance
 - Need to Halt or Reduce not a Defense N.J.A.C. 7:14A-2.9(b)
 - Proper Operation and Maintenance N.J.A.C. 7:14A-6.12
- d. Monitoring And Records
 - Monitoring N.J.A.C. 7:14A-6.5
 - Recordkeeping N.J.A.C. 7:14A-6.6
 - Signatory Requirements for Monitoring Reports N.J.A.C. 7:14A-6.9
- e. Reporting Requirements
 - Planned Changes N.J.A.C. 7:14A-6.7
 - Reporting of Monitoring Results N.J.A.C. 7:14A-6.8
 - Noncompliance Reporting N.J.A.C. 7:14A-6.10 & 6.8(h)
 - Hotline/Two Hour & Twenty-four Hour Reporting N.J.A.C. 7:14A-6.10(c) & (d)
 - Written Reporting N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h)
 - Duty to Provide Information N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
 - Schedules of Compliance N.J.A.C. 7:14A-6.4
 - Transfer N.J.A.C. 7:14A-6.2(a)8 & 16.2

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

1.Stormwater Discharge Requirements

- a. In addition to the conditions in Part I of this permit, the conditions in this section are applicable to activities at the permitted location and are incorporated by reference. The permit is required to comply with the regulations, which are in effect as of the effective date of this final permit.
 - i. conditions for General Permits N.J.A.C. 7:14A-6.13.
 - ii. procedures and conditions applicable to Stormwater Discharges N.J.A.C. 7:14A-11 *et seq.*
 - iii. procedures and conditions applicable to Ground Water N.J.A.C. 7:14A-7.

B. General Conditions

1. Permit Area

- a. This permit applies to all areas of the State of New Jersey.

2. Eligibility

- a. This permit may authorize only those new and existing industrial stormwater discharges to surface and/or ground waters from facilities engaging in the manufacture of concrete block or brick (SIC Code 3271 or NAICS equivalent), concrete products other than block and brick (SIC Code 3272 or NAICS equivalent), ready mixed concrete (SIC Code 3273 or NAICS equivalent), and/or from any other facility (including other concrete related operations classified as SIC Code 327x or NAICS equivalent) the Department deems a primary manufacturer of concrete and/or concrete products, except from the following:
 - i. stormwater discharges authorized under another NJPDES Discharge to Surface Water (DSW) or NJPDES Discharge to Ground Water (DGW) permit (including an expired permit);
 - ii. stormwater discharges from facilities with "sanitary landfills" or "hazardous waste landfills", as defined in N.J.A.C. 7:26-1.4, which have "significant material(s)" exposed, as defined in 40 CFR 122.26(b)(12);
 - iii. stormwater discharges from facilities subject to EPA stormwater effluent guidelines, under 40 CFR Subchapter N (e.g., runoff from material(s) storage piles at some cement manufacturing facilities and some mine dewatering);

- iv. other discharges, except wastewater from concrete drum washout, are not authorized by this permit, even if such discharges are combined with stormwater discharges that are authorized by this permit. Similarly, this permit does not authorize stormwater discharges associated with or direct discharges from acid washing, mining, asphalt pavement production, or any industrial activity other than those associated with the manufacture of concrete and concrete products which are specified in this permit;
- v. new operations with discharges to surface waters classified as Category One (C1), Pinelands Waters (PL) or Fresh Water One (FW1) designated in the tables in N.J.A.C. 7:9B-1.15.; or
- vi. new operations with discharges to ground water in areas classified under N.J.A.C. 7:9-6 as Class 1-A and Class 1-PL, or which discharge to ground water that contributes to surface waters classified as C1 or FW1.

3. Authorization

- a. To obtain authorization under this permit (except for automatic renewal authorization under B.4 below), a complete Request for Authorization (RFA) shall be submitted in accordance with the requirements of this permit. Upon review of the RFA, the Department may, in accordance with N.J.A.C. 7:14A-6.13, either:
 - i. issue notification of authorization under this permit, in which case, authorization is deemed effective as of the first day of the following month;
 - ii. deny authorization under this permit and require submittal of an application for an individual permit; or
 - iii. deny authorization under this permit and require submittal of an RFA for another general permit.
- b. For discharges authorized under this permit, the permittee is exempt from N.J.A.C. 7:14A-6.2(a)2. This exemption means that the discharge of any pollutant not specifically regulated in the NJPDES permit or listed and quantified in the NJPDES application or RFA shall not constitute a violation of the permit.

4. Automatic Renewal of Authorization

- a. Authorization under this permit will be automatically renewed when this general permit is reissued as provided by N.J.A.C. 7:14A-6.13(d)9 as long as the discharge authorized under the general permit continues to be eligible.
- b. The Department shall issue a notice of renewed authorization to the permittee.
- c. If the permittee is aware of any information in the most recently submitted RFA that is no longer true, accurate, and/or complete, the permittee shall provide the correct information to the Department within 90 days of the effective renewal authorization notice.
- d. A permittee whose authorization was renewed as provided above may request to be excluded from the reissued general permit in accordance with N.J.A.C. 7:14A-

6.13(g), and may also request a stay of the application to that permittee of any new/additional conditions of the reissued permit in accordance with N.J.A.C. 7:14A-17.6.

5. Request for Authorization Requirements

- a. Deadline for Requesting Authorization for an Existing Discharge
 - i. for authorization under this general permit, existing unpermitted facilities must submit an RFA to the Department within 30 days from the effective date of the permit (EDP).
 - ii. the Department may, in its discretion, accept an RFA submitted after the foregoing deadline; however, the discharger may still be held liable for any violations that occurred prior to the submission of the RFA, including discharging without a permit.
- b. Deadline for Requesting Authorization for a New Discharge
 - i. an RFA for new facilities requesting authorization under this permit shall be submitted to the Department at least thirty 30 days prior to the anticipated date of the commencement of operations.
- c. Requests for Authorization previously submitted to the Department
 - i. Requests for Authorization previously submitted to the Department prior to the availability of the final permit, shall be considered a Request for Authorization(s) under the final permit and shall be subject to all conditions and requirements of the final permit, including the submittal requirements and the request for additional information if needed in order to issue the Request for Authorization.
 - ii. applicants may request to rescind the previously submitted Request for Authorization under this permit, if after reviewing the conditions and requirements of the final permit, the applicant deems another NJPDES permit is more appropriate for their facility, and shall submit the appropriate Request for Authorization or permit application with the request to rescind their previously submitted Request for Authorization.

6. Contents of the Request for Authorization

- a. A completed RFA shall include all of the following information and shall be supplied on the Department's RFA form:
 - i. the name, mailing address, location and EPA identification number (if assigned) of the facility;
 - ii. the four (4) digit Standard Industrial Classification (SIC) Code or National Association of Industrial Coding Systems (NAICS) Code and Short Title;
 - iii. the legal name, address, and business telephone number of all current owners and operators, and if applicable, parent corporations or their agents and engineers. The RFA shall also identify whether each person

- named is an owner, operator or parent corporation, and whether the owner is a private entity, or Federal, State or other public agency;
- iv. an 8.5" x 11" copy of a portion of the U.S. Geological Survey Topographic Map, 7.5 minute quadrangle series, depicting the site boundaries with existing discharge location(s), and the name of the quadrangle(s) that the site appears on;
 - v. a brief description of the facility and its current and proposed uses (i.e. type of manufacturing, concrete washout procedures, material handling and storage practices);
 - vi. for discharges to surface water, the name of the receiving water body and for discharges to ground water (existing basins or lagoons) the name of the aquifer (if known);
 - vii. a list of any individual or general NJPDES permit(s) for industrial stormwater discharges to surface or ground water issued, or pending issuance, for the facility;
 - viii. for new facilities, the anticipated date of the commencement of operations, and Attachments C and Attachments D (which certify that a Stormwater Pollution Prevention Plan, including the Drainage Control Plan, was developed and fully implemented prior to the commencement of operations);
 - ix. other information may also be requested if the Department deems it reasonably necessary for the purposes of rendering a decision for authorization under this permit.

7. Where to Submit

- a. A completed and signed RFA shall be submitted to the Department at the address specified on the Department's RFA form.

8. Additional Notification

- a. Facilities that discharge industrial stormwater through a municipal separate storm sewer system must also submit a copy of the RFA to the owner and operator of that system.

9. Requiring an Individual NJPDES Permit or Another General Permit

- a. The Department may require any permittee authorized under this permit to apply for and obtain an individual permit, or seek and obtain authorization under another general permit.
- b. Any permittee authorized under this permit may request to be excluded from authorization under this permit by applying for an individual permit or for another general permit.
 - i. revocation of existing permits under such circumstances as stated above, is governed by N.J.A.C. 7:14A-6.13.
- c. If, after receiving authorization under this permit, a facility is required by the Department to obtain another NJPDES permit that would also cover the authorized

discharge, then authorization under this permit shall remain in effect only until either:

- i. the date such other permit becomes effective; or
 - ii. the date the application for such other permit (or request for authorization under another general permit) is denied.
- d. If a facility fails to submit an application or request for authorization by the date specified by the Department, then the general permit authorization remains in effect only until that date.

10. Other Discharges

- a. If, at any time, it is discovered that the facility generates and discharges to surface waters or ground waters any wastewater other than those discharges specifically authorized by this permit, the permittee shall discontinue such discharges and apply for the appropriate NJPDES DSW or DGW permit in accordance with N.J.A.C. 7:14A.
- b. Any septic systems, disposal beds, seepage pits (dry wells), or cesspools found to receive discharges of industrial waste are considered to be Class IV wells and are prohibited pursuant to N.J.A.C. 7:14A-8.4. All such discharges shall be discontinued immediately.

11. Other Laws

- a. In accordance with N.J.A.C. 7:14A-6.2(a)7, this permit does not authorize any infringement of State or local law or regulations, including, but not limited to the Pinelands rules (N.J.A.C. 7:50), N.J.A.C. 7:1E (Department rules entitled "Discharges of Petroleum and other Hazardous Substances"), and all other Department rules. No discharge of hazardous substances (as defined in N.J.A.C. 7:1E-1.6) resulting from an onsite spill shall be deemed to be "pursuant to and in compliance with [this] permit" within the meaning of the Spill Compensation and Control Act at N.J.S.A. 58:10-23.11c.

12. Notification of Changes

- a. The permittee shall give written notification to the Department of any planned physical or operational alterations or additions to the permitted facility when the alteration or addition is expected to result in a significant change in the permittee's discharge and/or residuals use or disposal practices including the cessation of discharge in accordance with N.J.A.C. 7:14A-6.7.

13. Residuals Management for Basins

- a. The permittee shall comply with land-based sludge management criteria and shall conform with the requirements for the management of residuals and grit and screenings under N.J.A.C. 7:14A-6.15(a), which includes:
 - i. Standards for the Use or Disposal of Residual, N.J.A.C. 7:14A-20;
 - ii. Section 405 of the Federal Act governing the disposal of sludge from treatment works treating domestic sewage;
 - iii. The Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and the

Solid Waste Management Rules, N.J.A.C. 7:26;

- iv. The Sludge Quality Assurance Regulations, N.J.A.C. 7:14C;
 - v. The Statewide Sludge Management Plan promulgated pursuant to the Water Quality Planning Act, N.J.S.A. 58:11A-1 et seq., and the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq.; and
 - vi. The provisions concerning disposal of sewage sludge and septage in sanitary landfills set forth at N.J.S.A. 13:1E-42 and the Statewide Sludge Management Plan.
 - vii. Residual that is disposed in a municipal solid waste landfill unit shall meet the requirements in 40 CFR Part 258 and/or N.J.A.C. 7:26 concerning the quality of residual disposed in a municipal solid waste landfill unit. (That is, passes the Toxicity Characteristic Leaching Procedure and does not contain "free liquids" as defined at N.J.A.C. 7:14A-1.2.)
- b. If any applicable standard for residual use or disposal is promulgated under section 405(d) of the Federal Act and Sections 4 and 6 of the State Act and that standard is more stringent than any limitation on the pollutant or practice in the permit, the Department may modify or revoke and reissue the permit to conform to the standard for residual use or disposal.
 - c. The permittee shall make provisions for storage, or some other approved alternative management strategy, for anticipated downtimes at a primary residual management alternative. The permittee shall not be permitted to store residual beyond the capacity of the structural treatment and storage components of the treatment works. N.J.A.C. 7:14A-20.8(a) and N.J.A.C. 7:26 provide for the temporary storage of residuals for periods not exceeding six months, provided such storage does not cause pollutants to enter surface or ground waters of the State. The storage of residual for more than six months is not authorized under this permit. However, this prohibition does not apply to residual that remains on the land for longer than six months when the person who prepares the residual demonstrates that the land on which the residual remains is not a surface disposal site or landfill. The demonstration shall explain why residual must remain on the land for longer than six months prior to final use or disposal, discus
 - d. The permittee shall comply with the appropriate adopted District Solid Waste or Sludge Management Plan (which by definition in N.J.A.C. 7:14A-1.2 includes Generator Sludge Management Plans), unless otherwise specifically exempted by the Department.
 - e. The preparer must notify and provide information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements to the person who applies bulk residual to the land. This shall include, but not be limited to, the applicable recordkeeping requirements and certification statements of 40 CFR 503.17 as referenced at N.J.A.C. 7:14A-20.7(j).
 - f. The preparer who provides biosolids to another person who further prepares the biosolids for application to the land must provide this person with notification and information necessary to comply with the N.J.A.C. 7:14A-20 land application

requirements.

- g. Any person who prepares bulk residual in New Jersey that is applied to land in a State other than New Jersey shall comply with the requirement at N.J.A.C. 7:14A-20.7(b)1.ix and/or 20.7(b)1.x, as applicable, to provide written notice to the Department and to the permitting authority for the State in which the bulk residual is proposed to be applied.

14. Outfall Tagging

- a. All permittees with discharges that flow through an outfall pipe, unless the outfall pipe is completely and continuously submerged or is not assigned a Discharge Serial Number (DSN), shall identify the outfall with an outfall tag. The outfall tag shall be:
 - i. legible;
 - ii. located as near to the end of the outfall as possible;
 - iii. made of durable material such as metal; and
 - iv. maintained on a regular basis, such as cleaned and inspected to ensure that the tag is properly attached.
- b. The outfall tag shall display, at a minimum, the following information:
 - i. the name of the facility where the discharge originates;
 - ii. the NJPDES permit number;
 - iii. the Department Hotline phone number;
 - iv. the Discharge Serial Number for that outfall.

PART III

LIMITS AND MONITORING REQUIREMENTS

A. AAAA STORMWATER ONLY DISCHARGE

Location Description

Benchmark concentration limits apply to stormwater monitoring for facilities discharging stormwater only.

Discharge Categories

Concrete Products Management (GP)

Surface Water DMR Reporting Requirements:

Beginning 24 months after EDP (except for newly constructed facilities) Submit a Quarterly DMR: due 25 calendar days after the end of each quarter.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Statistical Base	Sampling Frequency	Sample Type	Monitoring Period	Phase	Quantification Limit
pH	Effluent Gross Value	REPORT SU	Instant Minimum	1 / Quarter	Instantaneous	January thru December	Final	
pH	Effluent Gross Value	REPORT SU	Instant Maximum	1 / Quarter	Instantaneous	January thru December	Final	
Solids, Total Suspended	Effluent Gross Value	REPORT MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	
Oil and Grease(Freon Ext-IR Meth)Tot,Rcv	Effluent Gross Value	REPORT MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	
Solids, Total Dissolved (TDS)	Effluent Gross Value	REPORT MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	
Chemical Oxygen Demand (COD)	Effluent Gross Value	REPORT MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	
Iron, Total (as Fe)	Effluent Gross Value	REPORT MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	

B. BBBB STORMWATER ONLY LIMITS**Location Description**

Monitoring and effluent limitations apply to facilities discharging stormwater only which have had two consecutive benchmark criteria exceedances, or six benchmark criteria exceedances within the five year permit term.

Discharge Categories

Concrete Products Management (GP)

Surface Water DMR Reporting Requirements:

Beginning 24 months after EDP (except for newly constructed facilities) Submit a Quarterly DMR: due 25 calendar days after the end of each calendar quarter.

Table III - B - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Statistical Base	Sampling Frequency	Sample Type	Monitoring Period	Phase	Quantification Limit
pH	Effluent Gross Value	6.0 SU	Instant Minimum	1 / Quarter	Instantaneous	January thru December	Final	
pH	Effluent Gross Value	9.0 SU	Instant Maximum	1 / Quarter	Instantaneous	January thru December	Final	
Solids, Total Suspended	Effluent Gross Value	100 MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	
Oil and Grease(Freon Ext-IR Meth)Tot,Rcv	Effluent Gross Value	15 MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	
Solids, Total Dissolved (TDS)	Effluent Gross Value	500 MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	
Chemical Oxygen Demand (COD)	Effluent Gross Value	120 MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	
Iron, Total (as Fe)	Effluent Gross Value	1.0 MG/L	Daily Maximum	1 / Quarter	Grab	January thru December	Final	

C. CCCC PROCESS WASTEWATER**Location Description**

Monitoring and effluent limitations apply to facilities discharging process wastewater or process wastewater co-mingled with stormwater.

Discharge Categories

Concrete Products Management (GP)

Surface Water DMR Reporting Requirements:

Beginning 24 months after EDP (except for newly constructed facilities) Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Statistical Base	Sampling Frequency	Sample Type	Monitoring Period	Phase	Quantification Limit
Flow, Total	Effluent Gross Value	REPORT MGD	Monthly Average	1 / Month	Total	January thru December	Final	
Flow, Total	Effluent Gross Value	REPORT MGD	Daily Maximum	1 / Month	Total	January thru December	Final	
pH	Effluent Gross Value	6.0 SU	Instant Minimum	1 / Month	Grab	January thru December	Final	
pH	Effluent Gross Value	9.0 SU	Instant Maximum	1 / Month	Grab	January thru December	Final	
Solids, Total Suspended	Effluent Gross Value	REPORT MG/L	Monthly Average	1 / Month	Grab	January thru December	Final	
Solids, Total Suspended	Effluent Gross Value	25 MG/L	Daily Maximum	1 / Month	Grab	January thru December	Final	
Oil & Grease Tot Rec Hexane Extraction	Effluent Gross Value	10 MG/L	Monthly Average	1 / Month	Grab	January thru December	Final	
Oil & Grease Tot Rec Hexane Extraction	Effluent Gross Value	15 MG/L	Instant Maximum	1 / Month	Grab	January thru December	Final	
Oxygen Demand, Chem. (High Level) (COD)	Effluent Gross Value	30 MG/L	Monthly Average	1 / Month	Grab	January thru December	Final	
Oxygen Demand, Chem. (High Level) (COD)	Effluent Gross Value	45 MG/L	Weekly Average	1 / Month	Grab	January thru December	Final	
Oxygen Demand, Chem. (High Level) (COD)	Effluent Gross Value	100 MG/L	Daily Maximum	1 / Month	Grab	January thru December	Final	
Iron, Total Recoverable	Effluent Gross Value	1 MG/L	Daily Maximum	1 / Month	Grab	January thru December	Final	

D. RAIN STORM EVENT DATA**Location Description**

The following rain event data shall be recorded and submitted by facilities discharging stormwater only.

Discharge Categories

Stormwater

Surface Water WCR - Quarterly Reporting Requirements:

Beginning 24 months after EDP (except for newly constructed facilities) Submit a Quarterly WCR: due 25 calendar days after the end of each calendar quarter.

Table III - D - 1: Surface Water WCR - Quarterly Limits and Monitoring Requirements

Parameter	Compliance Quantity	Units	Sample Type	Monitoring Period	Phase	Quantification Limit
Date of Storm Event	REPORT	MM/DD/YY	Calculated	January thru December	Final	
Time Storm Event Began	REPORT	STD TIME	Calculated	January thru December	Final	
Storm Event Duration	REPORT	# HOURS	Calculated	January thru December	Final	
Hours Since Last Storm Event	REPORT	# HOURS	Calculated	January thru December	Final	
Time of Sample Collection	REPORT	STD TIME	Calculated	January thru December	Final	
Rainfall Amount at Time of Sampling	REPORT	# INCHES	Calculated	January thru December	Final	
pH	REPORT	SU	Instantaneous	January thru December	Final	

E. SL9A SQAR MONITORING**Location Description**

A representative sample of sludge removed for ultimate management shall be obtained and analyzed pursuant to the Sludge Quality Assurance Regulations (SQAR, N.J.A.C. 7:14C).

Discharge Categories

Concrete Products Management (GP)

Residuals DMR Reporting Requirements:

Submit a Monthly DMR: due 60 calendar days after the end of each calendar month In accordance with the Sludge Quality Assurance Regulations (SQAR, N.J.A.C. 7:14C), the frequency of monitoring is based upon the amount of sludge generated. Consequently, the frequency of monitoring may be reduced for individual authorizations. Also in accordance with the SQAR, the parameters to be monitored may change in individual authorizations pursuant to N.J.A.C. 7:14C-1.9(b).

Table III - E - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Statistical Base	Sampling Frequency	Sample Type	Monitoring Period	Phase	Quantification Limit
Solids, Total	Industrial Residuals	REPORT %TS	Monthly Average	1 / Month	Composite	January thru December	Final	
Molybdenum Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Arsenic, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Aluminum, Total (as Al)	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Selenium, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Copper, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Cadmium, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Zinc, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Lead, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Nickel, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Mercury, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Benzene, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	

Table III - E - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Statistical Base	Sampling Frequency	Sample Type	Monitoring Period	Phase	Quantification Limit
Ethylbenzene Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Toluene, Dry Weight	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	
Xylenes (Total)	Industrial Residuals	REPORT MG/KG	Monthly Average	1 / Month	Composite	January thru December	Final	

Residuals WCR - Monthly Reporting Requirements:

Submit a Monthly WCR: due 60 calendar days after the end of each calendar month.

Table III - E - 2: Residuals WCR - Monthly Limits and Monitoring Requirements

Parameter	Compliance Quantity	Units	Sample Type	Monitoring Period	Phase	Quantification Limit
Sludge Landfilled	REPORT	DMT/MO	Calculated	January thru December	Final	
Sludge Land Applied	REPORT	DMT/MO	Calculated	January thru December	Final	
Sludge Disposed Out-of-State	REPORT	DMT/MO	Calculated	January thru December	Final	
Amt Sludge Rmvd, Wet Cubic Yards	REPORT	WCY/MO	Calculated	January thru December	Final	
Amt Sludge Rmvd, Wet Metric Tons	REPORT	WMT/MO	Calculated	January thru December	Final	
Amt Sludge Rmvd, Gallons	REPORT	GAL/MON	Calculated	January thru December	Final	
Sludge Bene Use Out-of-State	REPORT	DMT/MO	Calculated	January thru December	Final	
Sludge Surface Disposed	REPORT	DMT/MO	Calculated	January thru December	Final	
Total Amount of Sludge Removed	REPORT	DMT/MO	Calculated	January thru December	Final	
Sludge Incinerated	REPORT	DMT/MO	Calculated	January thru December	Final	
Sludge Disposed-Other Methods	REPORT	DMT/MO	Calculated	January thru December	Final	
Sludge/Septage Rcvd Offsite Srces Wet MT	REPORT	WMT/MO	Calculated	January thru December	Final	
Sludge/Septage Rcvd Offsite Srces Gals	REPORT	GAL/MON	Calculated	January thru December	Final	
Sludge/Septage Rcvd Offsite Srces Wt Yd3	REPORT	WCY/MO	Calculated	January thru December	Final	
Solids, Total	REPORT	%TS	Composite	January thru December	Final	

Residuals Transfer Reporting Requirements:

Submit a Monthly RTR: due 60 calendar days after the end of each calendar month.

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Notes and Definitions

A. Footnotes and Definitions

1. Footnotes

- a. The following notes specifically refer to the Limits and Monitoring Requirements contained in Part III of this permit:
 - i. facilities are prohibited from discharging foam or causing foaming of the receiving water that:
 - forms objectionable deposits on the receiving water;
 - forms floating masses producing a nuisance;
 - produces objectionable color or odor; or
 - interferes with a designated use of the waterbody.
 - ii. facilities are prohibited from discharging stormwater, process wastewater or stormwater comingled with process wastewater that exhibits a visible sheen.

2. Definitions

- a. The following definitions apply to this permit:
 - i. **Benchmark concentration limit** means a specific maximum analytical result permissible for a corresponding parameter, prior to the imposition of an effluent limitation(s) for the parameter(s) that received two consecutive excursions [of the benchmark limit] or six (6) excursions [of the same parameter] within the five (5) year term of the permit.
 - ii. **Class B recycling facility** means refers to facilities that receive, store, process or transfer Class B recyclable materials as defined in N.J.A.C. 7:26A-1.3 and is in accordance with N.J.S.A. 13:1E-99.34b.
 - iii. **EDP** means the day the master industry specific permit (NJ0108456) becomes effective.
 - iv. **EDPA** means Effective Date of Permit Authorization. The effective date of permit authorization is the day an individual facility's authorization to discharge under the master industry specific permit becomes effective.
 - v. **Industrial area** means areas within a concrete facility where, due to the activities conducted and materials used, an impact to surface or ground water can occur, such as in the concrete mixer loading area, vehicle and equipment maintenance area, drive aisles and loading area from the mixing area to the entrance/exit points of the concrete facility, aggregate stockpile and recyclable storage areas if processed wastewater is used for

dust control and chemical storage areas. Industrial areas, for the purposes of this definition, does not include truck parking areas, employee parking areas, drive aisles in non-industrial areas, or any other portion of a concrete plant facility that is not directly involved in the processing and manufacturing of concrete products.

- vi. **Permitted outfall** means outfall(s) specifically authorized under this industry specific permit that discharge industrial stormwater, concrete washout wastewater or stormwater commingled with concrete washout wastewater to surface water. Permitted outfall(s) are subject to the treatment options contained in Part IV and reporting and monitoring requirements contained in Part III of the permit. All permitted outfalls must be identified in the Drainage Control Plan.
- vii. **Process wastewater discharge** means a discharge resulting from any washing, rinsing or loading of water to any part of the concrete truck, including but not limited to, the exterior washing of the truck and chute, the interior washing of the concrete truck mixing drum, and/or discharges that may result from the spraying down of aggregate piles, and spillage that may occur while loading the concrete trucks with clean water
- viii. **Residual** means a solid waste that consists of the accumulated solids and associated liquids which are by-products of a physical, chemical, biological, or mechanical process or any other process designed to treat wastewater or any other discharges subject to regulation under the State Act. For purposes of this permit, the term “residual” does not pertain to any concrete products or by-products that are to be reused or recycled on-site or stored on site waiting for final transport to a Class B recycling facility.
- ix. **Stormwater** means water resulting from precipitation (including rain or snow) that runs off the land’s surface, is transmitted to the subsurface, or is captured by separate storm sewers or other sewerage or drainage facilities.

Concrete Products Management (GP)

A. Performance Standards for the Concrete Products Manufacturing Industry

1. Drainage Control - All facilities authorized under this industry specific permit shall:

- a. Establish runoff control of all stormwater from industrial portions of the facility and ensure that stormwater from these industrial areas is discharged through permitted outfalls only.
- b. Separate and divert whenever possible non-industrial stormwater (e.g., rooftop runoff, employee parking) from industrial portions of the site. These non-industrial stormwater discharges may be discharged through non-regulated outfalls.
- c. Minimize to the maximum extent practicable, areas of industrial activity to reduce the design capacity of treatment units (treatment may be implemented at the facility's discretion).

2. Optimize Recycling - All facilities authorized under this industry specific permit shall:

- a. Optimize the recycling of all by-products and/or waste materials generated during concrete products manufacturing, including but not limited to, excess production of concrete, concrete washout wastewater, concrete debris and aggregate by reusing the materials in concrete production or transporting to a Class B recycling facility.

3. Eliminate Discharges of Process Wastewater and Stormwater from Industrial Areas to Ground Water - All facilities authorized under this industry specific permit shall:

- a. Eliminate the discharge of process wastewater and stormwater from industrial areas from discharging to ground waters of the State through the installation of lined basins (for the control and settling of solids associated with concrete production including concrete washout activities).
- b. Implement drainage control measures, which include the use of impervious surfaces for all industrial areas.

4. Monitoring and Effluent Limitation Standards

- a. Facilities discharging stormwater only shall monitor their discharges per the sampling requirements and benchmark concentration limits depicted in Part III.A and Table 2 of the permit.
- b. Any benchmark concentration limit that is exceeded twice consecutively or six (6) times throughout the five (5) year permit term, shall monitor their discharges per the effluent limitations in Part III.B. and Table 3 of the permit.
- c. Facilities that discharge process wastewater or stormwater co-mingled with process wastewater, are subject to the sampling requirements and effluent limitations in Part III .C.of the permit.

B. Discharge and Treatment Options

1. Types of Activity / Discharge Requirements

- a. The facility's completed Drainage Control Plan Forms, pursuant to Part IV, Section C.2 of the permit, shall identify which of the following discharge types and treatment options the facility chooses to implement
 - i. depending on a facility's drainage patterns and operations, a permittee may choose to implement one or a combination of the requirements listed below.
 - ii. the Department shall be notified which option(s) the permittee is planning to implement. This shall be done in accordance with the completed Drainage Control Plan forms submitted pursuant to Part IV, Section C.2.

2. Stormwater Only Discharges - If a facility chooses to discharge industrial stormwater (this does not include discharges resulting from any washing, rinsing or loading of water to any part of the concrete truck, including, but not limited to, the exterior washing of the truck and chute, the interior washing of the concrete truck mixing drum, and/or discharges that may result from the spraying down of aggregate piles, and/or spillage that may occur while loading the concrete truck with clean water) they may choose from the following requirements:

- a. Implement Industry-Wide Minimum Requirements and meet the benchmark concentration limits depicted in Part III.A and Table 2 of the permit.
 - i. parameters to be sampled include: pH, Oil and Grease, Total Suspended Solids, Total Dissolved Solids, Chemical Oxygen Demand and Iron.
 - ii. discharge monitoring shall be conducted on a quarterly basis and shall begin twenty-four (24) months from the effective date of the permit (EDP).
 - iii. any analytical result that exceeds a benchmark concentration limit either twice consecutively, or results in six (6) benchmark concentration limit excursions within the five (5) year permit term, shall be subject to the effluent limitation(s) depicted in Part III.B. and Table 3 of the permit for that corresponding parameter(s): pH (6.0-9.0 s.u.), Oil and Grease (15 mg/L), TSS (100 mg/L), TDS (500 mg/L), Fe (1.0 mg/L) and COD (120 mg/L).
 - iv. parameter exceedances that trigger the imposition of effluent limitations shall be reported to the Bureau of Nonpoint Pollution Control and the appropriate enforcement region within thirty (30) calendar days after receiving the analytical results per Part IV.F.4.b.

3. Process Wastewater Discharges or Process Wastewater Discharges Co-mingled with Stormwater - If the facility chooses to discharge any process wastewater, either solely, or co-mingled with stormwater, the following specific minimum treatment standards and effluent limitations shall apply.

- a. Implement Industry-Wide Minimum Requirements and design and construct an engineered treatment system. The treatment system shall be engineered for a design storm of 3.5" of rain falling uniformly during a 24-hour period (2yr/24hr storm) with a retention of at least 36 hours.
- i. if a stormwater quality basin is used, it shall be lined. The liner may be concrete. Facilities with areas unsuitable for lined basins due to bedrock, topography, deep weathering or outcrops of fractured bedrock, must demonstrate that the structural integrity of the lined basin foundation shall not be affected.
 - ii. all process wastewater shall be discharged into a concrete washout pit that shall be constructed and suitably sized for all washing and rinsing activities conducted on site. The concrete washout pit shall be located prior to the treatment unit to facilitate the removal of settled aggregate materials (sand, stone and cement clay). Any recovered materials (residuals) shall be recycled (reused on site or taken to a Class B recycling facility). If materials are taken to a Class B recycling facility, all transfer manifest records shall be maintained on site and filed as part of the SPPP.
 - iii. if the settled aggregate materials are not recycled, the facility must comply with the Sludge Quality Assurance Regulations (SQUAR, N.J.A.C. 7:14 C.) and must comply with the sampling and monitoring requirements in Part III.E. of the permit.
 - iv. the handling procedures for the settled aggregate materials shall be discussed in the facility's General Facility Wide Recycling Program as required by Part IV, Section D below.
 - v. a concrete washout pit may not be required if the engineered treatment unit has other means for recovering settled aggregate and cement clay.
 - vi. process wastewater discharges from the engineered treatment system shall meet the following effluent limitations for the following parameters: pH (6.0-9.0), Oil and Grease (10 mg/L monthly average and 15 mg/L daily maximum), Total Suspended Solids (40 mg/L daily max.), Total Dissolved Solids (500 mg/L daily max.), Iron (1.0 mg/L daily max.), and Chemical Oxygen Demand (30 mg/L monthly average and 45 mg/L weekly max).
 - vii. in addition to the above, Flow shall be monitored for monthly average/daily max and TSS monthly average.
 - viii. discharge monitoring shall be conducted on a monthly frequency and shall begin twenty-four (24) months from the effective date of the permit. twenty-four (24) months from the effective date of the permit (EDP).

C. Industry-Wide Minimum Requirements

1. Preparation and Implementation of the Stormwater Pollution Prevention Plan

- a. All facilities authorized under this industry specific permit shall prepare and implement a Stormwater Pollution Prevention Plan (SPPP) in accordance with Part IV, Section L. of this permit.

2. Drainage Control Plan

- a. All facilities authorized under this industry specific permit shall complete the Drainage Control Plan Forms within six (6) months from EDP and implement the Drainage Control Plan as part of the SPPP within twenty-four (24) months from the EDP.
 - i. the completed Drainage Control Plan Forms shall be submitted to the Bureau of Nonpoint Pollution Control with Attachment C, pursuant to the Submittal section of this Permit.
 - ii. implementation of the Drainage Control Plan shall be accomplished as part of the implementation of the SPPP and shall be certified by the submittal of Attachment D pursuant to the Submittal section located in Part IV of this permit.
- b. All facilities authorized under this industry specific permit shall pave with an impervious cover all industrial areas (except aggregate storage areas, unless treated with process wastewater or recycled batch mix water for dust control purposes) at the facility including, but not limited to, access roads, loading areas, process areas (batch mixing, washing, rinsing and hosing areas), vehicle and/or equipment maintenance areas, fueling areas and chemical and/or admixture storage areas. A schedule for paving shall be included in the Drainage Control Plan. The schedule shall not exceed 24 months from EDP.
- c. The completed Drainage Control Plan Forms shall include:
 - i. a description of how the facility shall insure that all stormwater from all industrial areas (including storage areas) is discharged only through permitted (regulated) outfalls. The Drainage Control Plan shall identify industrial areas that will be paved with an impervious surface, and include a description of all diversion and/or containment measure(s) the facility proposes to implement;
 - ii. a disclosure of whether the facility currently discharges, or intends to discharge process wastewater, or process wastewater co-mingled with stormwater;
 - iii. a specific description of how any process wastewater discharges are currently handled and how they shall be handled after additional BMPs or treatment is implemented;
 - iv. the name of the receiving water(s) where stormwater, process wastewater and/or stormwater co-mingled with process wastewater discharge;

- v. discharge and treatment options that shall be implemented in accordance with Part IV, Section B. above;
- vi. measures that shall be implemented to ensure clean stormwater is diverted from industrial areas and not discharged through permitted (regulated) outfalls (outfalls which discharge clean stormwater such as rooftop runoff and employee parking are not stormwater discharges associated with industrial activity, and therefore not regulated under this permit);
- vii. the location of each regulated outfall at the facility that shall discharge industrial stormwater and/or process wastewater and the receiving waters for each outfall;
- viii. a drainage area map depicting **existing drainage areas and conditions**, including topography (flow and drainage patterns); flow diversion structures; locations of treatment units (i.e., lined or unlined basins); outfalls (regulated and unregulated) discharge structures; names of receiving waters; areas of industrial activity (i.e., maintenance, fueling, storage, loading and mixing areas); access roads; industrial areas that produce a process wastewater discharge; existing buildings and other structures; employee parking, a directional indicator and scale of map;
- ix. a drainage area map depicting **planned drainage areas and conditions**, including topography; flow diversion structures; locations of treatment units (i.e., lined or unlined basins); outfalls (regulated and unregulated) discharge structures; names of receiving waters; areas of industrial activity (i.e., maintenance, fueling, storage, loading and mixing areas); access roads; industrial areas that produce a process wastewater discharge; existing building and other structures; employee parking, a directional indicator and scale of map;
- x. the drainage map does not have to be developed and sealed by a licensed professional engineer, but must be drawn to scale, no greater than 1 inch equals 200 feet; with all required features clearly noted;
- xi. an implementation schedule with specific timeframes and milestones for implementing all elements of the Drainage Control Plan and the SPPP. The implementation schedule shall not exceed 24 months from the EDP.

3. General Facility Wide Recycling Program

- a. All facilities authorized under this industry specific permit shall optimize the recycling of all by-products generated during concrete products manufacturing, including but not limited to, excess production of concrete, concrete washout wastewater and concrete debris and aggregate materials, by reusing the materials in concrete production or for other viable purposes. The SPPP shall include a description of the facility wide recycling program.
- b. Water Recycling – All facilities authorized under this industry specific permit shall consider at a minimum:

- i. the use of chemical stabilizing admixture systems that delay the hydration process, allowing the concrete wash water and left over concrete in truck drums to be calculated into the next mix of concrete.
 - ii. the installation of a mechanical recovery/reclamation system for all process wastewater.
 - iii. the reuse of basin water (if the facility has an existing basin or installs a basin pursuant to the conditions of this permit) for process wastewater and for batch water for fresh concrete.
 - iv. processed wastewater may only be used for dust control if it is applied to materials on an impervious surface, or directly onto an impervious surface.
- c. Material Recycling - All facilities authorized under this industry specific permit shall consider at a minimum:
 - i. the reuse of aggregate materials (fines, sand, stone and cement clay) recovered from a concrete washout pit, basin, mechanical recovery/reclamation system, or accumulated from sweeping/housekeeping activities.
 - ii. accumulated aggregate materials that are not reused on site or transported to a Class B Recycling facility, are subject to the Sludge Quality Assurance Regulations (SQAR, N.J.A.C. 7:14C) and must comply with the sampling and monitoring requirements in Part III.E.of the permit.
 - iii. if materials are transferred to a Class B Recycling facility, all transfer manifest records shall be kept as part of the SPPP.
 - iv. the reuse and recycling of other materials, including scrap metal, used motor oil, anti-freeze, vehicle batteries and tires.
- d. Potential Uses for Recycled Material
 - i. new concrete batches, concrete blocks or other structures.
 - ii. paving for the facility.
 - iii. road bed material or aggregate.
 - iv. reinforcement.

D. Submittal Requirements - Certifications and Deadlines

1. SPPP Preparation Certification (Attachment C)

- a. All facilities authorized under this industry specific permit shall revise their existing SPPP or prepare a new SPPP within six (6) months from the effective date of the permit and submit Attachment C with the completed Drainage Control Plan Forms and supplemental maps as required in Part IV, Section C.2. (except if this certification was included in the RFA previously submitted to the Department pursuant to Part II, Section B.6.a.vii). Attachment C shall be submitted as follows:

- i. submit an SPPP Preparation Certification: within six (6) months from EDP (Attachment C)
- ii. a copy of the SPPP Preparation Certification shall be kept on site and filed in the SPPP.

2. SPPP Implementation and Inspection Certification (Attachment D)

- a. All facilities authorized under this industry specific permit shall implement the SPPP (which includes the Drainage Control Plan, Facility Wide Recycling Program, and any additional treatment or BMPs the facility chooses to implement) within twenty-four (24) months from EDP and shall submit Attachment D (except if this certification was included in the RFA previously submitted to the Department pursuant to Part II, Section B.6.a.vii) as follows:
 - i. submit an SPPP Implementation and Inspection Certification: within twenty-four (24) months from EDP (Attachment D)
 - ii. a copy of the Implementation and Inspection Certification shall be kept on site and filed in the SPPP.
- b. The Department may grant a six (6) month extension to the deadline in 2.a.i above, if the permittee submits a written request for such extension at least thirty (30) days prior to the deadline, establishing to the Department's satisfaction that the Federal, State and local permits and/or approvals necessary for the construction of best management practices identified in the SPPP could not, with due diligence, be obtained within the time period as set forth in 2.a.i. above.

3. SPPP Implementation and Annual Recertification Certification (Attachment D)

- a. All facilities authorized under this industry specific permit shall submit an Annual Recertification (Attachment D). The Annual Recertification shall be completed after the Annual Inspection is performed pursuant to Part IV, Section H.3. of the permit. Results of the Annual Inspection shall be described in the Annual Report required by Part IV, Section F.5. of the permit, including any incidents of noncompliance. The submittal of Recertification Attachment D certifies that the facility's implementation of the SPPP complies with all conditions of the permit, including any applicable effluent limitations and/or monitoring requirements. The Annual Recertification shall be submitted as follows:
 - i. submit an SPPP Implementation and Inspection Recertification: within thirty-six (36) months from EDP and annually thereafter. This certification is Recertification Attachment D.
 - ii. a copy of the Annual Recertification shall be kept on site and filed in the SPPP.

4. Newly Constructed Facilities and/or New Discharges

- a. Newly constructed facilities and/or new discharges shall submit the completed Drainage Control Plan Forms, and Attachments C and D with the Request for Authorization.

- b. Recertification Attachment D shall be submitted to the Department within twelve (12) months from the effective date of permit authorization and annually thereafter.
- c. The Annual Inspection shall be conducted twelve (12) months from the effective date of the permit authorization and annually thereafter.
- d. The Annual Report shall be prepared twelve months from the effective date of the permit authorization and annually thereafter.

E. Monitoring

1. Monitoring Schedule

- a. All facilities (except for discharges from facilities described in iv. below) authorized under this industry specific permit shall begin monitoring their discharges twenty-four (24) months from EDP.
 - i. the Department, upon receipt of Attachment C and the completed Drainage Control Plan Forms (six months from EDP), shall provide the facility with the appropriate monitoring report forms.
 - ii. monitoring shall be conducted on a quarterly frequency for stormwater only discharges.
 - iii. monitoring shall be conducted on a monthly frequency for process wastewater discharges or process wastewater discharges co-mingled with stormwater.
 - iv. newly constructed facilities authorized under this industry specific permit must begin monitoring their discharges upon the effective date of the permit authorization.

2. Monitoring Locations

- a. Samples shall be taken at permitted outfall(s) designated by the facility in the Drainage Control Plan and specified on the Monitoring Report Forms provided by the Department.
 - i. samples shall be taken at the monitoring points specified above, and in all cases shall be before the effluent joins or is diluted by, any other waste stream, body of water or substance.
 - ii. sampling points shall not be changed without notification and prior approval from the Department.

3. Collection and Analysis of Samples

- a. All samples shall be collected in accordance with the latest edition of *NJDEP Field Sampling Procedures Manual* (available through the Maps and Publications Office at 609-777-1038). Facility personnel may conduct their own sampling.
- b. All stormwater samples shall be analyzed by a New Jersey certified laboratory (N.J.A.C 7:18).
- c. All samples shall be analyzed in accordance with approved EPA methods contained in 40 CFR Part 136, unless otherwise noted.

- d. Additional samples may be taken and analyzed by a New Jersey Certified laboratory. If so, the maximum value of all analytical results for a given parameter taken during the monitoring period shall be reported and all results for a given parameter shall be used in calculating and reporting an average value. If only one analysis for a given parameter is made during any monitoring period specified in this permit, the result of such analysis shall be construed as the maximum value for that parameter, for said monitoring period. For pH, both minimum and maximum values shall be reported.

F. Reporting

1. Stormwater Monitoring Report Forms

- a. All sampling results shall be summarized and reported in accordance with the appropriate requirements contained in Part III of this permit on the appropriate monitoring report forms that are mailed separately by the Department.
 - i. if the facility's pre-printed monitoring report forms contain errors or discrepancies from the monitoring and reporting requirements contained in Part III, the permittee should immediately contact the Bureau of Nonpoint Pollution Control at (609) 633-7021.
 - ii. the permittee is required to monitor its stormwater discharge and submit the appropriate monitoring report forms to the Department in accordance with conditions of the permit, even if the pre-printed monitoring report forms contain errors.
 - iii. the permittee shall make hand corrections to the monitoring report forms if corrected forms are not received prior to the monitoring report due date.

2. Reporting "No Discharge"

- a. If a discharge does not occur during a monitoring period, the permittee should check "No Discharge this monitoring period" on the monitoring form transmittal sheet for each discharge monitoring location, which had "no discharge".

3. Reporting Storm Event Information (stormwater only discharges)

- a. In order for the Department to better assess the monitoring results provided by the facility, the Department requires that supplemental storm event information be provided with monitoring reports for discharges comprised entirely of stormwater.
- b. The permittee shall record and submit on Wastewater Characterization Report (WCR) forms (provided by the Department) the following storm event information:
 - i. date and approximate time storm event began;
 - ii. an estimate of the inches of rainfall or snowfall (can be based upon data as recorded by a local weather monitoring station(s) or an on site maintained monitoring station);
 - iii. storm event duration in hours and/or minutes, as appropriate;
 - iv. a statement that there has not been a storm event which caused a stormwater discharge in the previous 72 hours; and

- v. date and time the sample was collected.

4. Reporting Parameter Exceedances

- a. Effluent limitations shall go in effect for stormwater only monitoring when benchmark concentration limits are exceeded during two consecutive monitoring periods that produce analytical results, or when exceedances have occurred for six monitoring periods that produce analytical results within the five year permit term;
- b. The permittee shall notify the Bureau of Nonpoint Pollution Control and the appropriate regional enforcement office when a number of exceedances have occurred that trigger the imposition of effluent limitations for stormwater only discharges, as described in Part IV.F.4.a above. Failure to notify either the permitting Bureau or enforcement office, may result in the imposition of monthly monitoring requirements, the assessment of monetary penalties and/or other enforcement action.

5. Mailing Monitoring Report Forms

- a. Unless otherwise specified or directed, signed copies of required monitoring report forms shall be submitted postmarked no later than the 25th day of the calendar month following the completed monitoring period to the address given below:

New Jersey Department of Environmental Protection
Bureau of Permits Management
P.O. Box 029
Trenton, New Jersey 08625-0029
Attn. Monitoring Reports

6. Annual Inspections, Annual Reports and Recertifications

- a. Annual Inspections
 - i. once the SPPP has been implemented in accordance with this permit, the permittee shall conduct annual inspections of the facility to assess all areas contributing to the industrial stormwater discharge (including process wastewater or process wastewater co-mingled with stormwater) authorized by this permit, to evaluate whether the SPPP complies with and is implemented in accordance with this permit, and whether additional measures are needed to meet the conditions of this permit.
 - ii. inspections during dry periods allow facilities to identify and address any problems prior to a storm event, thereby minimizing the chance for storm water contamination.
 - iii. inspections during significant storm events ensure that measures are functioning as originally intended and provide an opportunity for facilities to observe which materials and/or activities are exposed to stormwater.
 - iv. a summary of any modifications to the facility, BMPs or treatment shall be included in the SPPP.

b. Annual Report

- i. the permittee shall prepare an Annual Report summarizing the findings of the Annual Inspection performed as required above. The Annual Report is not to be submitted to the Department but shall be made part of the facility's SPPP and made available for inspection. The annual report shall include:
 - the date of inspection;
 - name(s) and title(s) of the inspectors; and
 - a summary of the findings of the Annual Inspection including any incidents of non-compliance. Incidents of non-compliance discovered during the Annual Inspection shall be listed in the Annual Report with any remedial actions and/or preventative measures taken.
 - a recertification (Attachment D) certifying that the facility is in compliance with the permit's conditions, including any applicable monitoring and effluent limitations. The Annual Recertification shall be submitted to the Department in accordance with the requirements contained in the "Submittal" section in Part IV, Section D of this permit.

7. Additional Conditions Associated with Residuals Monitoring

- a. For purposes of reporting sludge quality, the permittee shall report monitoring results on DMRs or other monitoring report forms where such forms are specified, and all applicable information required on the forms shall be entered in the manner specified therein before submission.
- b. Residuals DMRs or other monitoring report forms (where other forms are specified) are due on or before the first day of the third month following the last day of the reporting period.
- c. All completed monitoring forms shall be submitted to the address in Part IV, Section F.4.a.i above.

G. Record Keeping**1. Requirements**

- a. The permittee shall retain records of all monitoring report forms, laboratory analysis sheets with chain of custody, maintenance and inspection records, copies of all reports (including the SPPP and the Drainage Control Plan) required by this permit, for a period of at least five years.

2. SPPP Record Keeping Requirements

- a. The SPPP shall be signed by the permittee, with the original retained at the facility for reference and available to the Department while conducting compliance inspections.

- b. The SPPP must be made available upon request, to a representative of the Department and to the owner and operator of any municipal separate storm sewer system receiving the stormwater discharge.
- c. The SPPP shall be made available to the public upon request.
- d. The facility may claim any portion of the SPPP as confidential in accordance with the provisions set forth in N.J.A.C. 7:14A-18.2.

3. Soil Erosion and Sediment Control Plan

- a. Construction activities disturbing five acres or more of total land area, or less than five acres which are part of a greater than 5 acre plan of development or sale, or the current threshold established by NJPDES regulations in effect before the commencement of construction, authorization must be obtained under NJPDES Permit No. NJ0088323 (General Stormwater Permit for Construction Activity), for stormwater from such construction activities that would discharge to surface waters.
- b. Land disturbances that may result in a stormwater discharge authorized by this permit, shall be executed only in accordance with a soil erosion and sediment control plan certified pursuant to N.J.S.A. 4:24-43, or requirements for soil erosion and sediment control established in or pursuant to a municipal ordinance in accordance with N.J.S.A. 4:24-48, whichever is applicable.
- c. A copy of this plan shall be retained on site by the permittee for a period of at least 5 years after the completion of construction.

H. Operation and Maintenance

1. Operation, Maintenance, and Emergency Conditions

- a. The facility shall at all times maintain in good working order, and operate, supervise, or manage any BMPs, treatment works, treatment units and facilities which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance, includes, at a minimum:
 - i. effective performance based upon treatment levels for which the treatment works or treatment unit is designed;
 - ii. effective management;
 - iii. adequate operator staffing and training;
 - iv. regularly scheduled inspection and maintenance programs;
 - v. adequate laboratory and process controls including appropriate quality assurance procedures.
- b. The facility shall also operate backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit.

2. Operations & Maintenance Manual

- a. All facilities authorized under this industry specific permit that operate a treatment works or treatment unit and/or implement BMPs, shall complete an operation and maintenance manual (O & M Manual) and have it available for inspection twenty-

four (24) months from EDP. Newly constructed facilities that operate a treatment works or treatment unit shall complete the O & M Manual and make it available for inspection upon the EDPA.

- b. The O&M Manual shall be included as part of the facility's Stormwater Pollution Prevention Plan.
- c. If the items required in the O & M Manual are addressed in another document which has been approved by the Department, the permittee may submit a letter to the BNPC referencing which document contains the applicable information.
- d. The most recent version of the O & M Manual, as well as all records of maintenance and inspections, shall be kept on-site at all times and available for inspection by the Department.
- e. The permittee must educate all appropriate personnel as to the contents and procedures of the O & M Manual to ensure proper implementation and maintenance.
- f. The O & M Manual shall include, at a minimum, the following provisions, as applicable:
 - i. a list of all pollutants generated or used on site, and/or discharged to all units regulated by this permit.
 - ii. a schedule of maintenance and inspections of the processes including pollutant generation, use(s), conveyance and the discharge unit(s).
 - iii. a schedule of the required inspections for all monitoring devices (i.e., flow meters, chemical adjusters).
 - iv. requirements established in this permit for unit-specific maintenance and inspection.
 - v. assessment of emergency situations which affect the discharge activities as outlined in N.J.A.C. 7:14A-6.12(d)3. Emergency procedures in the O & M Manual shall not create an unpermitted discharge or contravene any rules or regulations. If the discharge flows to the regulated units without the aid of pumps, the emergency plan shall only address equipment and emergency procedures.
 - vi. procedures for correcting emergency situations.
 - vii. procedures for notifying the appropriate agencies.
 - viii. location of any onsite temporary or permanent pollutant storage areas.
 - ix. provisions for utilizing previously approved and constructed diversion mechanisms, if applicable. These provisions shall include the ability to monitor for permit compliance.
 - x. after an emergency situation has been corrected, the permittee shall review the emergency procedures in place and submit, if necessary, an updated O & M Manual.
- g. The permittee shall notify in writing the appropriate regional Bureau of Water Compliance and Enforcement office no less than 180 days prior to the expected

closure of the regulated unit requesting current closure requirements. The permittee, upon receipt of these requirements, shall submit a closure plan to the permit issuing bureau for review and approval.

3. Requirements for all Basins

- a. For the purpose of this permit, a basin is a collective term used to describe a variety of regulated units at NJPDES-Discharge to Ground Water (DGW) permitted facilities. Examples of these basins are infiltration/percolation lagoons or surface impoundments which may be referenced by the permittee as retention, settling, storage or detention ponds, basins, lagoons, lined or unlined basins. The common feature of these basins is that they are topographic depressions or bermed areas designed to hold, treat and/or transmit pollutants.
- b. Unauthorized discharges from basins are prohibited.
- c. The following items should be addressed in the facility's O & M Manual.
 - i. a schedule of physical inspections of all visible portions and areas surrounding the basin unit(s) to:
 - ensure that the liner material and berms have remained structurally sound;
 - detect evidence of any deterioration, breakout, malfunctions or improper operation of the over-topping control system;
 - detect sudden drops in the level of the basin contents not associated with normal operation of the regulated unit;
 - detect erosion or other signs of deterioration in berms or other containment devices;
 - detect the presence of liquids in the leak detection system, if employed.
 - ii. a protective cover shall be maintained on earthen dikes to prevent erosion and to maintain structural integrity. However, the dikes shall be free of vegetation having invasive root systems that could displace the earthen materials upon which the structural integrity of the dike is dependent.
 - iii. a course of action shall be outlined for procedures to be implemented in the event the basin must be removed from service for an extended period of time for reasons other than routine maintenance and/or scheduled rotation of permitted discharge areas. This course of action must address how the discharge will be handled which can include diversion of the discharge to a previously approved reserved disposal area.
- d. A basin that was removed from service due to structural collapse or overtopping may only be restored to service if that portion of the basin which failed is repaired.
 - i. if a basin is removed from service due to actual or imminent bank or side wall failure, a New Jersey licensed Professional Engineer shall certify (by signature and seal) the structural integrity of the bank and side wall prior to the redirection of flow to the basin. Said certification shall be

received by the Department prior to the resumption of discharge to the basin.

- ii. if a basin is inactive for more than six months due to structural collapse or overtopping, the permittee shall obtain a certification from a New Jersey licensed Professional Engineer that it is structurally sound. The certification shall be signed and sealed by the New Jersey licensed Professional Engineer and shall establish that the banks, dikes, and foundation of the basin will withstand the physical and chemical stresses of resumed operation. If the basin is lined, the certification shall also state that the lined basin is adequate in preventing a discharge to ground water.
- iii. if the original basin system or portions thereof are insufficient or inadequate, the permittee shall propose a new upgraded system. The new basin system shall be installed upon issuance of a TWA from the Bureau of Engineering. A new site plan shall be submitted along with any necessary revisions to the O & M Manual.
- iv. the basin shall remain inoperable until all inspections and necessary repairs have been completed.

4. Requirements for Surface Impoundments (Lined Basins)

- a. The following items should also be addressed in the facility's O & M Manual.
 - i. the liner shall be maintained at its design permeability. The integrity of all surface impoundments must be periodically evaluated. Additionally, the Department may at any time require the certification of structural integrity based on visual observations made during facility Compliance Evaluation Inspections or other Department site visits.
 - ii. repaired or replaced liners must be tested for integrity prior to resuming discharge.
 - iii. a minimum of one integrity test shall be performed during the year prior to the submission of a renewal application unless otherwise approved by the Department.
 - iv. for existing facilities, initial integrity testing of the liner shall occur within one year of the completed basin construction, with subsequent integrity testing occurring at a minimum frequency of once every three years.

I. Treatment Works Approval (TWA) Requirements

1. Treatment Works Approvals for Stormwater Only

- a. A treatment works approval from the Department is not required pursuant to N.J.A.C. 7:14A-22.4(b)3 for building, installing, operating or modifying stormwater management facilities, including but not limited to retention basins, detention basins, and oil/water separators that prevent, abate, reduce, collect, convey, store, treat, dispose of, or otherwise manage stormwater runoff only.

2. Treatment Works Approval for Process Wastewater or Process Wastewater Co-mingled with Stormwater

- a. A Treatment Works Approval is required for building, installing, operating or modifying industrial wastewater treatment systems, holding tanks, equalization tanks, and wastewater treatment and recycling systems.
 - i. facilities which install a basin or treatment system for process wastewater or process wastewater co-mingled with stormwater, must submit to the Department an application for treatment works approval.
 - ii. information regarding an application for treatment works approval may be obtained by contacting the Bureau of Engineering North at 609-292-6894, or Bureau of Engineering South at 609-984-6840 for further information.
 - iii. the implementation schedule required by the Drainage Control Plan in Part IV, Section C.2.c.x. shall include a timeframe for the submission of the application for treatment works approval.

J. Licensed Operator Requirement**1. Licensed Operator Requirement for Stormwater Only**

- a. The operation of treatment systems (i.e. treatment works) for stormwater only discharges authorized under this industry specific permit do not require a licensed operator, pursuant to N.J.A.C. 7:10A-1.1 *et seq.*

2. Licensed Operator Requirement for Process Wastewater or Process Wastewater Co-mingled with Stormwater

- a. The facility shall obtain the services of a licensed operator of the appropriate classification prior to operating any new or modified treatment works, in accordance with N.J.A.C. 7:10A-1.1 *et seq.*
 - i. the facility's Treatment Works Approval issued by the Department will contain the licensed operator classification.

K. Attachment A – Request For Authorization (RFA) Certification**1. RFA Certification by Applicant**

- a. Every Request for Authorization (RFA) shall include the following RFA certification using the Department's required forms:
 - i. "I certify under penalty of law that this Request for Authorization and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. As far as I know, none of the stormwater discharges for which this Request for Authorization is submitted are

excluded from authorization according to Part II. B.2. of NJPDES Permit No. NJ0108456”.

- ii. “I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 8:10A-1 *et seq.*, there are significant civil and criminal penalties for making a false statement, representation or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment.”
- b. The RFA certification shall be signed as follows:
 - i. for a corporation, by “responsible corporate officer” or duly authorized representative treasurer or vice-president of the corporation in charge of a principal business function, or other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - ii. for a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or duly authorized representative;
 - iii. for a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official, or duly authorized representative;
 - iv. for a “responsible corporate officer”, general partner, proprietor, principal executive officer of a public agency, or ranking elected official, may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named individual or generic position (e.g., plant manager, operator of a well or well field or superintendent), having overall responsibility for facility/site operations or the company’s or public agency’s environmental matters, by submitting a letter to the Bureau of Permit Management stating said authority and naming the individual or position.

L. Attachment B - Contents of a Stormwater Pollution Prevention Plan (SPPP)

1. Objectives

- a. Identify potential sources of pollution and/or source materials on site which may reasonably be expected to affect the quality of industrial stormwater which discharges to surface and/or ground waters of the State;
- b. Describe and ensure that practices are implemented to eliminate and/or minimize to the greatest extent practicable, source materials in industrial stormwater which discharge to surface and/or ground waters of the State;
- c. Ensure compliance with the terms and conditions of the Concrete Products Manufacturing Industry Specific Permit (NJ0108456).

2. Stormwater Pollution Prevention Team

The permittee shall form and identify a Stormwater Pollution Prevention Team in the SPPP. The SPPP shall name a specific individual (or individuals) within the facility organization who are members of the team and shall be responsible for developing the SPPP in accordance with good engineering practices, and in the Plan's implementation and maintenance. The Plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's SPPP (provided below).

3. Description of Existing Environmental Management Plans

The SPPP Team shall evaluate the facility's existing environmental management plans and programs for consistency with this permit and determine which provisions, if any, from these other plans can be incorporated (by reference) into the SPPP.

Examples of plans which may be referred to when applicable to the site include: Discharge Prevention Containment and Countermeasure (DPCC) N.J.A.C. 7:1E, Discharge Cleanup and Removal (DCR) N.J.A.C. 7:1E, Preparedness Prevention and Contingency Plan (PPCP, 40 CFR Parts 264 and 265), the Spill Prevention Control and Countermeasures (SPCC) requirements (40 CFR Part 112), the National Pollutant Discharge Elimination System Toxic Organic Management Plan (NPDESTOMP, 40 CFR Parts 413, 433 and 469), and the Occupational Safety and Health Administration (OSHA) Emergency Action Plan (29 CFR Part 1910). A copy of any plan referenced in the SPPP shall be kept on site with the SPPP.

In addition, the facility shall include as part of their SPPP, the Industry-Wide Minimum Requirements (i.e., Drainage Control Plan; Facility Wide Recycling Program; Discharge, Treatment and Monitoring Options; and the Operations and Maintenance Manual) as required by Part IV. Copies of all certifications (and reports if applicable) submitted to the Department shall also be kept as part of the SPPP.

4. Site Assessment

The Site Assessment shall describe the physical attributes of the facility and any potential pollutants and/or source materials (industrial materials, activities and areas) which may reasonably be expected to affect the quality of stormwater discharges. The main elements of the site assessment shall include, at a minimum, the following:

a. Inventory Requirements

Each facility must develop and update annually, as appropriate, an inventory which includes, at a minimum:

- i. a list of the general categories of source materials that have been used, loaded/unloaded, stored, treated, spilled, leaked and/or disposed of on site exposed to stormwater;
- ii. a list of any domestic wastewater, non-contact cooling water, or process wastewater (including, but not limited to process wastewaters regulated by this permit identified in the Definitions Section, Part IV of the permit), that are generated at the facility and discharge through separate

storm sewers (defined in Part IV of the permit) to surface water or discharge to ground water; and

- iii. a list of any current New Jersey Pollutant Discharge Elimination System (NJPDES) permit(s) or permit application(s) that the facility may have for such discharges.

b. Mapping Requirements

A site map, drawn to scale not to exceed 1 inch = 200 feet, shall be developed that includes the following minimum information (more than one map may be developed to ensure all required information is included):

- i. buildings and other permanent structures;
- ii. paved areas and roadways (including access routes and/or roads);
- iii. surface water bodies (i.e., rivers, lakes, streams, bays, estuaries) that are located on or near the property which receive or may receive stormwater, process wastewater, or process wastewater co-mingled with stormwater from the site;
- iv. location of all stormwater, process wastewater, or process wastewater co-mingled with stormwater, discharge points and outfalls;
- v. surface impoundments (detention/retention basins) or other treatment systems;
- vi. existing (and proposed if applicable) treatment, discharge and sampling points associated with the benchmark concentration limit requirements as defined in Part IV.B.2.;
- vii. existing (and proposed if applicable) treatment and/or BMPs, discharge and sampling points associated with the effluent limitation requirements as defined in Part IV.B.3.;
- viii. outline of the drainage area within the facility boundary for each outfall, including a directional flow indicator (i.e., arrow head) that receives stormwater, process wastewater or process wastewater co-mingled with stormwater;
- ix. outline of the drainage area within the facility boundary that receives industrial stormwater discharges to ground water, including point of entry if applicable;
- x. locations where source materials are likely to be exposed to stormwater, and the following minimum activities and/or areas:
 - chemical and aggregate storage areas (note if on an impervious surface);
 - palletted materials;
 - outdoor handling, treatment or disposal areas;
 - loading and/or unloading areas;
 - manufacturing and/or processing areas;

- by-product, end-product and/or recyclable material storage areas;
 - vehicle/equipment maintenance and/or fueling areas;
 - vehicle/equipment washing and/or rinsing areas;
 - vehicle/equipment liquid (i.e., water) loading areas;
 - hazardous waste storage or disposal areas; and
 - areas of spills and/or leaks of source materials.
- xi. location of existing (and proposed if applicable) stormwater structural control measures (i.e., containment, berms, oil/water separators, grassed swales); and
 - xii. areas of existing and potential soil erosion.
- c. Narrative Description of Existing and Proposed Site Conditions

The SPPP shall include a narrative description concerning the existing and proposed management of all source materials at the facility which are handled, treated, stored, disposed, or which otherwise exist in a manner where there is contact or potential contact with stormwater. The narrative description shall address the following where appropriate:

- i. any discharges of domestic wastewater, non-contact cooling water, or process wastewater that are listed in accordance with a.ii. above (unless such discharges have been authorized by other NJPDES permits or identified in applications or requests for authorization submitted for other NJPDES permits);
- ii. a description of the types of industrial activities and/or areas (including, but not limited to, concrete wash out activities, truck rinsing and /or water loading areas, fueling, material handling, manufacturing and/or processing areas) at the site;
- iii. the actual or potential pollutant categories associated with each industrial activity and/or area where source materials are likely to be exposed to stormwater including, but not limited to: fuel storage or fueling areas; loading/unloading areas; areas where spills and/or leaks of source materials may or are likely to occur; equipment and/or vehicle maintenance and/or washing, rinsing, or cleaning areas; manufacturing or processing areas; concrete washout areas; raw material, by-product, end-product and/or recyclable material storage, handling and disposal areas; above ground liquid or chemical storage tanks; (i.e., fueling area: diesel fuels, gasoline, petroleum hydrocarbons); and
- iv. a description of existing and proposed management practices employed to:
 - eliminate contact of source materials with stormwater;
 - minimize or reduce source materials through structural or non-structural measures (i.e., detention, retention basins);

- divert and/or treat stormwater, process wastewater, and/or process wastewater co-mingled with stormwater discharges to specific areas on or off-site (i.e., diversion to containment areas; holding tanks; treatment systems, units or facilities; or sanitary or combined sewers [with all applicable approvals]);
- prevent or permit any unauthorized discharges of domestic wastewater, non-contact cooling water or process wastewater to surface and/or ground water.

5. Best Management Practices (BMP) Selection and Plan Design

The permittee shall evaluate the information from the site assessment phase of this plan to identify potential and existing sources of stormwater contaminated by source materials. All unauthorized discharges of domestic wastewater, non-contact cooling water, and/or process wastewater shall be eliminated or permitted.

In addition to the implementation of the Industry-Wide Minimum Requirements in Part IV, Section C of the permit, and based upon the findings of the site assessment, the permittee shall develop BMPs that will effectively eliminate or reduce pollutant and/or source material loading in stormwater, process wastewater, and/or process wastewater co-mingled with stormwater from the facility, in accordance with the following sections.

BMPs are specific measures used to prevent or mitigate pollution and/or source material exposure from industrial areas and/or activities occurring on site. The evaluation and selection of the BMPs shall correlate with the observed industrial activities and/or area(s) where source material is exposed or has the potential for exposure, to stormwater that discharges to surface or ground water, and shall be documented in the SPPP, including at a minimum the following:

a. Non-Stormwater Discharges to Surface and or Ground Water

The permittee shall ensure that it does not generate and discharge, through storm sewers to surface water, or to ground water, any unauthorized discharges of domestic wastewater, non-contact cooling water, and/or process wastewater unless that discharge is authorized by this permit, another NJPDES permit or identified in an application or request for authorization submitted to the Department for another NJPDES permit.

b. Removal, Cover or Control of Industrial Areas, Materials and/or Activities

Except as specified and required in Part IV of the permit for certain, specific exposures of source materials, all other source materials shall be moved indoors, covered, used, handled, and/or stored in a manner so as to prevent, or minimize to the greatest extent practicable, contact with stormwater that discharges to surface and/or ground water. Each BMP implemented for this purpose shall be identified and discussed in the SPPP.

c. Diverting Stormwater

In addition to the Industry Wide Minimum Requirement for controlling drainage from the entire site (including the separation of industrial and non-industrial stormwater discharges where practicable), contaminated stormwater may be diverted to onsite treatment, or off-site if the appropriate prior approvals are granted. However, process wastewater discharges to ground water and/or process wastewater discharges co-mingled with stormwater to ground water, are not authorized under this permit and shall require a separate individual NJPDES-Discharge to Ground Water (DGW) Permit.

d. Spill Prevention and Response

Areas where actual or potential spills of source materials exposed to stormwater can occur, and their associated drainage points, shall be clearly identified in the SPPP. Where appropriate, specific material handling procedures, storage requirements and use of equipment (such as diversion valves) shall be developed and implemented to prevent and/or eliminate spills and/or leaks of source materials from stormwater exposure. Procedures for cleaning up spills shall be included in the SPPP and made available to the appropriate personnel through scheduled employee training. In addition, the facility shall provide or otherwise make available to its personnel, the appropriate and necessary spill cleanup equipment, instruction and procedures in order to effect an immediate and thorough spill cleanup.

e. Housekeeping

The SPPP shall include an adequate housekeeping program in order to maintain a safe, clean and efficient workplace. Stormwater exposure to some industrial areas and activities may be eliminated simply by the implementation of effective housekeeping procedures. The following are examples of housekeeping practices that may be easily assimilated into the working operations and activities at the facility:

- i. spill kits and absorbent materials readily and easily accessible;
- ii. cleanup of spills and/or leaks attended to immediately after discovery;
- iii. instruct and implement careful material handling and storage practices;
- iv. improve operation and maintenance of industrial machinery, equipment and processes;
- v. maintain and keep record of clean and organized material inventory areas;
- vi. maintain clean, safe and organized areas where industrial activities are conducted;
- vii. proper disposal and storage of materials, including, hazardous, raw, inter-mediate, by-product, final-product and waste materials (incorporating recycling where appropriate);

- viii. maintain clean, dry surfaces and work areas by utilizing brooms, shovels, vacuum cleaners, sweepers and/or other cleansing materials/mechanisms on a routine basis, and
- ix. maintain current (continual if necessary), adequate and appropriate training for employees.

f. Preventative Maintenance

The SPPP shall include a Preventative Maintenance Program which includes timely and regularly scheduled inspections of stormwater management devices (i.e., oil/water separators, catch basins, detention/retention basins, concrete wash out pit(s), and other treatment systems that may be implemented at the site). Routine inspections are crucial for equipment and machinery to operate optimally, and to ensure non-structural BMPs, such as spill kits and hay bales are clean, properly placed and adequately supplied.

Routine inspections usually lead to early detection of machinery/equipment wear and may prevent more serious equipment or machinery failure. Tanks, piping (valves and joints), containers and drums shall be checked on a routine basis for signs of rust, leakage or integrity deterioration.

g. Employee Training

An employee training program shall be developed, implemented and overseen by the person(s) responsible for developing and implementing the SPPP. A training schedule shall be established that accommodates new employees as well as any new or additional best management practices or treatment technologies that the facility decides to implement. Continual assurance shall be achieved that facility personnel are properly implementing and maintaining conditions of the SPPP.

h. Readily Implementable BMPs

Non-structural BMPs (i.e., housekeeping, maintaining spill kits, establishing and recording inspection schedules) and other BMPs that can be readily implemented, shall be done so within sixty (60) calendar days from the effective date of the permit.

i. Inspections and Evaluation Process

i. Routine inspections

The SPPP shall require routine inspections of the facility's industrial equipment, areas of source material exposure to stormwater and other industrial areas to ensure that all elements of the SPPP are operating satisfactorily and as intended. These inspections shall be conducted by qualified and properly trained personnel. Records of the inspections shall be maintained on site and filed as part of the SPPP. The inspection records shall contain the following minimum information:

- date and time of inspection;

- name and/or location of the area or equipment inspected;
- any problems identified;
- corrective and/or preventative measures taken;
- name(s) and title(s) of the person(s) conducting the inspection;
- date the final corrective and/or preventive measures were completed and name of the person completing this task;
- incidents of leaks or accidental or unauthorized discharges;
- the failure or breakdown of structural BMPs; and
- the date non-structural BMPs are changed or re-supplied.

ii. Annual Inspections and Annual Reports

The SPPP also requires an annual inspection of the entire facility in accordance with Part IV, Section H.3. of the permit and where an Annual Report in accordance with Part IV, Section F.5. of the permit shall also be generated. The Annual Inspection and Annual Report shall be maintained on site and filed as part of the SPPP.

iii. Evaluation Process

The SPPP shall define a system in which the effectiveness of the SPPP and the effectiveness of the implementation of the SPPP are routinely and continually evaluated, for example if a structural BMP is commonly malfunctioning, it shall be replaced with a more effective alternative.

These routine evaluations shall consist of at the minimum: regular and annual inspections; the accurate maintenance of inspection logs and records; appropriate internal reporting and follow through if required; the maintenance of a current SPPP to reflect any changes that shall occur as a result of these inspections; and accurate logs of preventative and/or maintenance activities that may be conducted on equipment and/or machinery.

6. Drainage Control Plan

A Drainage Control Plan prepared in conformance with Part IV.C.2., including the Discharge and Treatment Options under that Part IV.B., shall be included as part of the SPPP. The Drainage Control Plan Forms shall be completed and submitted per the Submittal Section in Part IV. D.1. of the permit.

7. Facility-Wide Recycling Program

The Facility Wide Recycling Program developed in conformance with Part IV.C.3., shall be included as part of the SPPP.

8. Operations and Maintenance Manual

The Operations and Maintenance Manual prepared under Part IV.H.2, shall be included as part of the SPPP.

9. Implementation Schedule

The SPPP shall be prepared within six (6) months from the effective date of the final permit (EDP), upon which time Certification Attachment C shall be submitted to the Department, which certifies the development of the SPPP (and Drainage Control Plan Forms) are complete. The SPPP shall also include an implementation schedule for the following:

BMPs that may be readily implemented (i.e., spill response, housekeeping measures) shall be implemented within sixty (60) days from EDP, if not already in practice;

All Industry-Wide Minimum Requirements (i.e., drainage control, recycling, discharge and/or treatment option(s), operation and maintenance activities) and other structural and/or non-structural BMPs necessary for the removal, coverage, prevention or minimization of source material exposure to stormwater, and/or stormwater diversion, shall be fully implemented within twenty-four (24) months from EDP. Certification Attachment D shall be submitted to the Department, which certifies the SPPP implementation is complete.

10. General Plan Requirements

This section provides the administrative requirements related to finalizing the SPPP, such as required signatures, plan location and access, and certifications.

- a. Required Signatures for the SPPP and Attachments (C, D and Recertification Attachment D):
 - i. for a corporation, by a principal executive officer of at least the level of Vice President;
 - ii. for a partnership or sole proprietorship, by a general partner or the proprietor respectively;
 - iii. for a municipality, State, Federal or other agency, by either a principal executive officer or a ranking official; or
 - iv. for i., ii. or iii. above, by a duly authorized representative, provided that

- the representative is authorized by a person described in i., ii. or iii. above;
- this authorization specifies either an individual or a position responsible for the overall operation of the regulated facility or activity (i.e., plant manager, superintendent); and
- the written authorization is submitted to the Department.

b. Plan Location and Public Access

- i. the SPPP and inspection and preventative maintenance records or logs shall be maintained on site at all times. These documents shall be made available, upon request, to a representative of the Department and to the owner and operator of any municipal separate storm sewer receiving the discharge(s) authorized under this permit.
- ii. the SPPP shall be made available to the public upon request. The facility may claim any portion of the SPPP as confidential in accordance with the provisions set forth in N.J.A.C. 7:14A-11.

c. Certification of the SPPP

- i. Certification Attachment C shall be signed and submitted by the permittee to the Department as required by Part IV, Section D.1. of this permit.
- ii. Certification Attachment D shall be signed and submitted by the permittee to the Department as required by Part IV, Section D.2.
- iii. Recertification Attachment D shall be signed and submitted by the permittee to the Department as required by Part IV, Section D.3.

11. Special Requirements

- a. Facilities Subject to Emergency Planning and Community Right-to-Know Statute
Facilities subject to Emergency Planning and Community Right-to-Know Act (EPCRA) Section 313, shall include in the SPPP, the location (or cite the location) of any spill reports prepared under that Act.
- b. Facilities with SPCC Plans, DPCC Plans, or DCR Plans

The SPPP shall include or cite the location(s) of any Spill Prevention Control and Countermeasure Plan (SPCC Plan) prepared under 40 CFR 112 and section 311 of the Clean Water Act, 33 U.S.C. § 1321; and any Discharge Prevention, Containment and Countermeasure Plan (DPCC Plan) and Discharge Cleanup and Removal Plan (DCR Plan) prepared under N.J.A.C. 7:1E.

- c. Facilities Undergoing Construction Activities

- i. Construction activities disturbing five acres or more of total land area or less than five acres if part of a greater than 5 acre plan of development or sale (or the effective threshold adopted by current NJPDES regulations at the commencement of construction), authorization must be obtained under NJPDES Permit No. NJ0088323 (General Stormwater Permit for Construction Activity), for stormwater from such construction activities that discharges to surface waters.
- ii. Land disturbances that may result in a stormwater discharge authorized by this permit, shall be executed only in accordance with a Soil Erosion and Sediment Control Plan certified pursuant to N.J.S.A. 4:24-43, or requirements for soil erosion and sediment control established in or pursuant to a municipal ordinance in accordance with N.J.S.A. 4:24-48, whichever is applicable.
- iii. A copy of this plan shall be retained on site by the permittee for a period of at least 5 years after the completion of such construction activities.
- iv. Whenever construction activities are undertaken at the facility, the SPPP shall be amended, if necessary, to include any additional permits or requirements, so that the SPPP continues to be current and to meet the requirements of Part IV of the permit.

M. Attachment C – Stormwater Pollution Prevention Plan Preparation Certification

- 1. The following certification shall be signed, dated and submitted to the Department using the appropriate Department forms within six (6) months from the effective date of the final permit:**
 - a. “I certify under penalty of law that I have personally examined and am familiar with the information in this Stormwater Pollution Prevention Plan Preparation (SPPP) Certification and all attached documents”.
 - b. “I further certify that the SPPP Certification and all attached documents were prepared by qualified personnel under my direction or supervision in accordance with a system designed to assure that this information was properly gathered and evaluated. Based on my inquiry of those persons directly responsible for gathering this information, I believe and certify that the information in the SPPP and all attached documents, are true, accurate and complete”.
 - c. “I certify that the SPPP referred to in this Stormwater Pollution Prevention Plan Preparation Certification has been signed and is being retained at the facility in accordance with Part IV.D, of NJPDES Permit No. NJ0108456, and that this stormwater pollution prevention plan will be fully implemented at the facility in accordance with the terms and conditions of that permit. I further certify that the SPPP and all applicable attachments for this permitted facility have been developed in accordance with Attachment B and the deadlines of the permit. I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 *et seq.*, there are significant civil and criminal penalties for making a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment”.

d. This certification shall be signed as follows:

- i. for a corporation, by a responsible corporate officer as described in N.J.A.C. 7:14A-4-4.9.a.1;
- ii. for a partnership or sole proprietorship, by a general partner or the proprietor, respectively;
- iii. for a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official; or
- iv. for a corporation or other entity under i., ii., or iii. above, by a duly authorized representative, provided that:
 - the representative is authorized by a person described in i., ii., or iii. above;
 - this authorization specifies either an individual or a position responsible for the overall operation of the regulated facility or activity such as plant manager, operator of a well or well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company or public agency. A duly authorized representative may thus be either a named individual or any individual occupying a named position;
 - the written authorization is submitted to the Department;
 - whenever there are two or more permittees for the facility, all of those permittees shall jointly submit this Stormwater Pollution Prevention Plan Preparation Certification; and
 - any changes in the facility's name, address, telephone number, contact, parent company, etc., are to be recorded on the Standard Change Form which can be obtained from the BNPC.

N. Attachment D - Stormwater Pollution Prevention Plan Initial Implementation and Inspection Certification

1. Submit this certification to the Bureau of Nonpoint Pollution Control after the SPPP is implemented and inspected for adequacy and effectiveness, within twenty-four (24) months from the effective date of the final permit unless the Department grants an extension.

- a. "I certify under penalty of law that I have personally examined and am familiar with the information in this Stormwater Pollution Prevention Plan (SPPP) Initial Implementation and Inspection Certification and all attached documents".
- b. "I certify that this SPPP Initial Implementation and Inspection Certification and all attached documents were prepared by qualified personnel under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated this information. Based on my inquiry of those persons directly responsible for gathering this information, I believe and certify that

the information in this SPPP Initial Implementation and Inspection Certification and all attached documents are true, accurate and complete”.

- c. “I certify that the facility has been inspected to identify areas contributing to the stormwater and/or concrete washout wastewater discharge(s) authorized under NJPDES permit No. NJ0108456 and to evaluate whether the Stormwater Pollution Prevention Plan (SPPP) prepared under that permit complies with part IV.D., of that permit and is being properly implemented”.
- d. “I certify that the SPPP will continue to be fully implemented at this facility in accordance with the terms and conditions of NJPDES Permit No. NJ0108456. I also certify that this facility does not generate and discharge to surface or ground waters, any domestic wastewater, non-contact cooling water, or process waste water (including leachate and contact cooling water) other than stormwater (or concrete washout wastewater regulated under this permit), unless that discharge is authorized by another NJPDES permit or identified in an application (or request for authorization) submitted for another NJPDES permit”.
- e. “I certify that this facility is not in violation of any conditions of Permit No. NJ0108456 for preparation and implementation of an SPPP, except for incidents of noncompliance (which are noted in the attached Noncompliance Incident Report Sheet or NCIRS). For any incidents of noncompliance identified in the annual inspection (or made known to me during the course of the past year), I have identified these incidents, and identified steps taken or being taken to remedy the noncompliance and to prevent such incidents from recurring. If the NCIRS identifies any incidents of noncompliance, I certify that any remedial or preventative steps identified therein were or will be taken. I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment”.
- f. This certification shall be signed as follows:
 - i. for a corporation, by a “responsible corporate officer” or duly authorized representative. A “responsible corporate officer” is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - ii. for a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or duly authorized representative.

- iii. for a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official, or duly authorized representative.
- iv. a “responsible corporate officer”, general partner, proprietor, principal executive of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e. g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee’s environmental matters, by submitting a letter to the Bureau of Nonpoint Pollution Control stating said authority and naming the person or position.
- v. whenever there are two or more permittees for the facility, all of those permittees shall jointly submit this Certification, unless permittees received authorization on different dates and this Certification is therefore due from them at different dates.

TABLE 1**Summary of Permit Requirements – Existing Discharges and/or Facilities**

ACTIVITY	DEADLINES	SUBMITTAL
Readily implementable BMPs	Within 60 days from EDP	None
Revise and/or Prepare a SPPP	Within 6 months from EDP	Attachment “C”
Complete Drainage Control Plan (DCP) Forms	Within 6 months from EDP	Submit with Attachment “C”
Implement SPPP	Within 24 months from EDP	Certification Attachment “D”
Begin Stormwater Monitoring	Begin 24 months from EDP	Quarterly analytical results on the appropriate Department forms
Process Wastewater Monitoring	Begin 24 months from EDP	Monthly Discharge Monitoring Report Forms
Annual Inspection and Annual Report	Begin 36 months from EDP, Annually thereafter	Prepare Annual Report summarizing annual inspections, Certification Recertification Attachment “D”

Summary of Permit Requirements –New Discharges From Newly Constructed Facilities

ACTIVITY	DEADLINES	SUBMITTAL
Request for Authorization	30 days prior to commencement of operations	RFA including completed DCP Forms and Attchments C & D
Begin Stormwater (only) and Process Wastewater Monitoring	Upon EDP	Submit monitoring results on the appropriate Department forms
Annual Inspection and Annual Report	Begin 12 months from EDP, Annually thereafter	Prepare Annual Report summarizing annual inspections Submit Recertification Attachment “D”, annually thereafter

Table 2. Benchmark Criteria for Stormwater Discharges to Surface Water*
Per Part IV.A.4.a

Parameter	Benchmark Concentration
pH	6.0 – 9.0 Standard Units
TDS	500 mg/L
TSS	100 mg/L
Oil and Grease	15 mg/L
COD	120mg/L
Iron, Total (as Fe)	1.0 mg/L

*If an exceedance occurs of a parameter(s) listed above, either twice consecutively, or six times within the five-year term of the permit, the effluent limitations depicted below will be imposed for such parameter(s).

Table 3. Effluent Limitations for Stormwater Discharges to Surface Water
Per Part IV.4.b.

Parameter	Effluent Limitation	Basis
pH	6.0 – 9.0 Standard Units	N.J.A.C. 7:9B ¹
TDS	500 mg/L	N.J.A.C. 7:9B
TSS	100 mg/L	NURP ² , EPA MSGP ³
Oil and Grease	15 mg/L	N.J.A.C. 7:9B
COD	120 mg/L	NURP, EPA MSGP
Iron, Total (as Fe)	1.0 mg/L	EPA MSGP

Notes

¹N.J.A.C. 7:9B Surface Water Quality Standards

²National Urban Runoff Program , EPA Study, 1984 (see Fact Sheet for Draft Renewal)

³EPA Multi-Sector General Permit, Final 1993

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Nonpoint Pollution Control
NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM



Concrete Products Manufacturing Industry Specific

Permit NJ0108456

Drainage Control Plan Form

Please provide all applicable information and print clearly or type.
(Attach additional sheets as necessary).



1. Permittee Information

Name of Facility _____

NJPDES Permit Number _____

PI Number _____

Drainage Control Plan due date _____

Is Attachment "C" attached or previously submitted? _____

2. Discharge Information

A. Receiving Water (s)

Name the surface water body stormwater discharges to:

Name the surface water body process wastewater discharges to:

B. Does the facility currently (at time of application) generate a process wastewater discharge? (circle as appropriate) Yes No

If yes, are stormwater and process wastewater discharges

co-mingled Yes No

If yes, does the discharge go to ground water Yes No

By overland flow Yes No

By detention or retention basin Yes No

By underground injection Yes No

If no, does the co-mingled discharge go to surface water Yes No

By discrete conveyance or outfall (number, i.e., 001) _____ Yes No

By swale or other non-discrete conveyance Yes No

If not currently discharging, is a process wastewater discharge planned for the future? Yes No

If yes, give approximate date when, where and how will discharge _____

If stormwater and process wastewater are not co-mingled, describe how and where they discharge _____

C. Are all current non-industrial stormwater discharges separated from industrial discharges?

Yes No

If no, is facility planning on separating these discharges?

Yes No

Explain _____

D. Does the facility produce residuals?

Yes No

Does the facility recycle the residuals on site?

Yes No

Does the facility take the residuals off-site?

Yes No

To a Class B recycling center?

Yes No

Are manifest forms maintained in SPPP?

Yes No

Other _____

E. Impervious Surfaces

Are the following areas on or consist of an impervious surface?

Access roads

Yes No

Loading/unloading areas

Yes No

Batch mix area

Yes No

Washing, rinsing and hosing areas

Yes No

Vehicle and/or equipment maintenance area

Yes No

Fueling area

Yes No

Chemical and/or admixture storage area

Yes No

Aggregate stock areas (if process wastewater or recycled water are used for dust control)

Yes No

If no, will paving be complete within 24 months of EDP?

Yes No

If no, explain _____

F. Site Drainage

Does the facility currently have structural diversion or containment measures?

Yes No

If no, are any planned for implementation?

Yes No

Identify current and/or planned structural measures

G. Drainage Maps (multiple maps may be used to depict all required information)

Are an existing **and** proposed drainage map attached that includes the following information? (circle all that apply)

Yes No

Topography

Areas of industrial activity

North arrow

Drainage patterns	Treatment units and/or BMPs	Buildings
Flow diversion structures	Outfalls and discharge structures	Scale

H. Does the facility control the discharge from the basin(s) Yes No

I. Does the facility adjust the pH prior to discharging from the basin Yes No

Explain _____

J. Are the following attachments enclosed?

Existing Drainage Map	Yes	No
Proposed Drainage Map	Yes	No

Other _____

K. Additional information (attach additional sheets if necessary)

Provide any additional information you feel is pertinent to the development and/or implementation of the Drainage Control Plan.

4. Signatures, Title and Date

The Drainage Control Plan (and attached supplemental information) have been prepared by _____

and to the best of my knowledge are true, accurate and correct, during the development phase of the Plan, during the submittal of the Plan, and was prepared with the intention of fully implementing the Plan within the specified timeframe as required by Part IV.C.2.a. of the permit.

Signature(s) _____

Title _____

Date _____
